

ABSTRACT

A polyester amide copolymer comprising a copolymer of an aliphatic polyamide (A) and an aliphatic polyester (B), having a weight-average molecular weight of at least 40000 and containing at most 10 wt.% of a fraction having molecular weights of at most 10000, is produced through a production process including (1) a step at 100 - 150 °C of initial stage of distillation of low-molecular weight fraction including water and initial stage of (poly)esterification, (2) a step at 150 - 300 °C of polymerization and uniform melting and (3) a step under a reduced pressure of oligomer removal and polymerization. The resultant polyester amide copolymer is excellent in biodegradability and also excellent in physical properties represented by high strength and high heat resistance.